

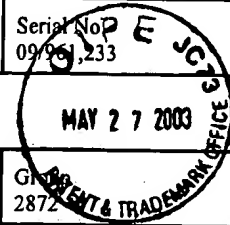


| Form PTO-1449  |    | U.S. Department of Commerce<br>Patent and Trademark Office |          | Atty. Docket No.<br>P21188         |       | Serial No.<br>09/961,233 |                               |
|--|----|--|----------|------------------------------------|-------|--------------------------|-------------------------------|
| <b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br>(Use several sheets if necessary)  |    |  |          | Applicant<br>Hiroshi NOMURA et al. |       |                          |                               |
|  |    |  |          | Filing Date<br>September 24, 2001  |       | Group<br>2872            |                               |
| <b>U.S. PATENT DOCUMENTS</b>   |    |  |          |                                    |       |                          |                               |
| EXAMINER<br>INITIAL  |    | DOCUMENT NUMBER  | DATE     | NAME                               | CLASS | SUBCLASS                 | FILING DATE<br>IF APPROPRIATE |
| W  |    | 4 9 1 8 4 8 0  | 04/17/90 | HORI                               |       |                          |                               |
| W  |    | 4 9 7 5 7 2 5  | 12/04/90 | MORISAWA                           |       |                          |                               |
| W  |    | 5 1 4 4 3 5 2  | 09/01/92 | SHONO                              |       |                          |                               |
| W  |    | 5 2 2 2 4 0 7  | 06/29/93 | SEKIGUCHI                          |       |                          |                               |
| W  |    | 5 2 3 7 3 5 7  | 08/17/93 | MORISAWA                           |       |                          |                               |
| W  |    | 5 3 1 3 2 4 4  | 05/17/94 | ARAI                               |       |                          |                               |
| W  |    | 5 6 4 6 7 9 0  | 07/08/97 | KOHMOTO et al.                     |       |                          |                               |
| W  |    | 5 6 7 1 4 4 9  | 09/23/97 | SHIMIZU                            |       |                          |                               |
| W  |    | 5 7 0 1 2 0 8  | 12/23/97 | SATO et al.                        |       |                          |                               |
| W  |    | 5 7 0 8 5 3 3  | 01/13/98 | HAMASAKI                           |       |                          |                               |
| W  |    | 5 7 7 4 7 4 8  | 06/30/98 | ITO et al.                         |       |                          |                               |
| W  |    | 5 8 4 2 0 5 7  | 11/24/98 | NOMURA et al.                      |       |                          |                               |
| W  |    | 4 9 1 7 4 8 2  | 04/17/90 | ITO                                |       |                          |                               |
| W  |    | 4 9 7 8 2 0 4  | 12/18/90 | ITO                                |       |                          |                               |
| W  |    | 4 9 8 4 8 7 7  | 01/15/91 | ITO                                |       |                          |                               |
| W  |    | 5 5 7 2 2 7 6  | 11/05/96 | HIRAKAWA                           |       |                          |                               |
| W  |    | 6 0 2 8 7 1 4  | 02/22/00 | KOYAMA                             |       |                          |                               |
| <b>FOREIGN PATENT DOCUMENTS</b>  |    |  |          |                                    |       |                          |                               |
|  |    | DOCUMENT NUMBER  | DATE     | COUNTRY                            | CLASS | SUBCLASS                 | TRANSLATION<br>YES NO         |
| W  | 20 | 00 2 7 5 5 1 8   | 10/06/00 | JAPAN                              |       |                          |                               |
| W  | 8- | 1 4 6 2 9 6  | 06/07/96 | JAPAN                              |       |                          |                               |
|  |    |  |          |                                    |       |                          |                               |
| <b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>  |    |  |          |                                    |       |                          |                               |
| W  | 1  | English Language Abstract of JP 2000-275518.               |          |                                    |       |                          |                               |
| W  | 2  | English Language Abstract of JP 8-146296.                  |          |                                    |       |                          |                               |
|  |    |  |          |                                    |       |                          |                               |
| EXAMINER <i>Bluma Shusterman</i>   |    |  |          | DATE CONSIDERED <i>4/21/04</i>     |       |                          |                               |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |    |  |          |                                    |       |                          |                               |

Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

Serial No. **09/061,233**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)Applicants  
Hiroshi NOMURA et al.Filing Date  
September 24, 2001GPO  
2872

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE     | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--------------------|----------|-----------------|-------|----------|-------------------------------|
| <i>HL</i>           | 6 1 1 8 6 6 6      | 09/12/00 | AOKI et al.     |       |          |                               |
| <i>HL</i>           | 6 1 6 0 6 7 0      | 12/12/00 | NAKAYAMA et al. |       |          |                               |
| <i>HL</i>           | 6 4 2 4 4 6 9      | 07/23/02 | HIRAI           |       |          |                               |
| <i>HL</i>           | 6 4 3 7 9 2 4      | 08/20/02 | AZEGAMI         |       |          |                               |
| <i>HL</i>           | 6 4 9 3 5 1 1      | 12/10/02 | SATO            |       |          |                               |
| <i>HL</i>           | 6 4 2 9 9 7 9      | 08/06/02 | ENOMOTO         |       |          |                               |
| <i>HL</i>           | 6 4 3 7 9 2 2      | 08/20/02 | ENOMOTO et al.  |       |          |                               |
| <i>HL</i>           | 6 5 2 2 4 7 8      | 02/18/03 | NOMURA et al.   |       |          |                               |
| <i>HL</i>           | 6 5 2 2 4 8 2      | 02/18/03 | NOMURA et al.   |       |          |                               |
| <i>HL</i>           | 6 5 2 2 4 8 1      | 02/18/03 | NOMURA et al.   |       |          |                               |
| <i>HL</i>           | 6 4 2 9 9 7 9      | 08/06/02 | ENOMOTO         |       |          |                               |
| <i>HL</i>           | 6 4 3 7 9 2 2      | 08/20/02 | ENOMOTO et al.  |       |          |                               |

## FOREIGN PATENT DOCUMENTS

| DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES NO |
|--------------------|------|---------|-------|----------|-----------------------|
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |
|                    |      |         |       |          |                       |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

EXAMINER

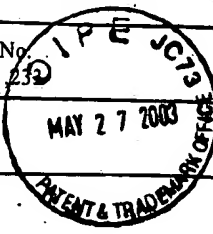
*John A. Kullback*

DATE CONSIDERED

*4/21/04*

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

|   |  |  |  |                                     |  |                          |  |
|---|--|--|--|-------------------------------------|--|--------------------------|--|
| Form PTO-1449   |  | U.S. Department of Commerce<br>Patent and Trademark Office |  | Atty. Docket No.<br>P21188          |  | Serial No.<br>09/961,232 |  |
| <b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br>(Use several sheets if necessary) |  |  |  | Applicants<br>Hiroshi NOMURA et al. |  |                          |  |
|   |  |  |  | Filing Date<br>September 24, 2001   |  | Group<br>2872            |  |



| U.S. PATENT DOCUMENTS |                    |          |                |       |          |                               |  |  |  |
|-----------------------|--------------------|----------|----------------|-------|----------|-------------------------------|--|--|--|
| EXAMINER<br>INITIAL   | DOCUMENT<br>NUMBER | DATE     | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |  |  |  |
| pl                    | 5 3 0 1 0 6 6      | 04/05/94 | HIGUCHI et al. |       |          |                               |  |  |  |
| pl                    | 5 5 8 9 9 8 7      | 12/31/96 | TANAKA         |       |          |                               |  |  |  |
| pl                    | 5 7 0 1 2 0 8      | 12/23/97 | SATO et al.    |       |          |                               |  |  |  |
| pl                    | 5 7 3 9 9 6 2      | 04/14/98 | ASAKURA et al. |       |          |                               |  |  |  |
| pl                    | 5 7 7 4 2 6 6      | 06/30/98 | OTANI et al.   |       |          |                               |  |  |  |
| pl                    | 5 8 7 0 2 3 2      | 02/09/99 | TSUJI et al.   |       |          |                               |  |  |  |
| pl                    | 5 9 3 3 2 8 5      | 08/03/99 | SATO et al.    |       |          |                               |  |  |  |
| pl                    | 6 0 6 9 7 4 5      | 05/30/00 | FUJI et al.    |       |          |                               |  |  |  |
| pl                    | 6 1 9 5 2 1 1      | 02/27/01 | IWASAKI        |       |          |                               |  |  |  |
| pl                    | 6 3 6 9 9 5 5      | 04/09/02 | ENOMOTO et al. |       |          |                               |  |  |  |
| pl                    | 6 4 5 6 4 4 2      | 09/24/02 | ENOMOTO        |       |          |                               |  |  |  |
| pl                    | 6 4 5 6 4 4 5      | 09/24/02 | NOMURA et al.  |       |          |                               |  |  |  |

| FOREIGN PATENT DOCUMENTS |      |         |       |          |                       |  |  |  |  |
|--------------------------|------|---------|-------|----------|-----------------------|--|--|--|--|
| DOCUMENT<br>NUMBER       | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION<br>YES NO |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |
|                          |      |         |       |          |                       |  |  |  |  |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

|                    |                                |
|--------------------|--------------------------------|
| EXAMINER <i>pl</i> | DATE CONSIDERED <i>4/21/04</i> |
|--------------------|--------------------------------|

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|--|------|--|---|-------------------------------------|---|--------------------------|---|------|----------|-----------------|----------|-------------------------------|
| Form PTO-1449  |      | U.S. Department of Commerce<br>Patent and Trademark Office |   | Atty. Docket No.                    |   | Serial No.<br>09/961,233 |   |      |          |                 |          |                               |
| INFORMATION DISCLOSURE STATEMENT<br>BY APPLICANT<br>(Use several sheets if necessary)  |      |  |   | Applicants<br>Hiroshi NOMURA et al. |   |                          |   |      |          |                 |          |                               |
|  |      |  |   | Filing Date<br>September 24, 2001   |   | Group<br>2872            |   |      |          |                 |          |                               |
| U.S. PATENT DOCUMENTS  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
| EXAMINER<br>INITIAL  |      | DOCUMENT<br>NUMBER   |   |                                     |   |                          |   | DATE | NAME     | CLASS           | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
| H  |      | 6  | 4 | 6                                   | 9 | 8                        | 4 | 0    | 10/22/02 | NOMURA et al.   |          |                               |
| H  |      | 6  | 4 | 6                                   | 9 | 8                        | 4 | 1    | 10/22/02 | NOMURA et al.   |          |                               |
| H  |      | 6  | 5 | 1                                   | 2 | 6                        | 3 | 8    | 01/28/03 | SATO et al.     |          |                               |
| H  | 2002 | /  | 0 | 0                                   | 1 | 2                        | 1 | 7    | 8        | 01/31/02        | NOGUCHI  |                               |
| H  | 2002 | /  | 0 | 0                                   | 3 | 6                        | 8 | 3    | 6        | 03/28/02        | HAGIMORI |                               |
| H  |      | 4  | 3 | 9                                   | 0 | 2                        | 6 | 2    | 06/28/83 | HIROHATA et al. |          |                               |
| H  |      | 4  | 4 | 1                                   | 6 | 5                        | 2 | 7    | 11/22/83 | OKURA           |          |                               |
| H  |      | 5  | 1 | 6                                   | 6 | 8                        | 2 | 9    | 11/24/92 | IIZUKA          |          |                               |
| H  |      | 5  | 2 | 4                                   | 1 | 4                        | 2 | 2    | 08/31/93 | SHIMADA et al.  |          |                               |
| H  |      | 5  | 4 | 6                                   | 1 | 4                        | 4 | 3    | 10/24/95 | NAKAYAMA et al. |          |                               |
| H  |      | 5  | 5 | 5                                   | 9 | 5                        | 7 | 1    | 09/24/96 | MIYAMOTO et al. |          |                               |
| H  |      | 5  | 8 | 1                                   | 2 | 8                        | 8 | 9    | 09/22/98 | NOMURA et al.   |          |                               |
| FOREIGN PATENT DOCUMENTS   |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      | DOCUMENT<br>NUMBER   |   |                                     |   |                          |   | DATE | COUNTRY  | CLASS           | SUBCLASS | TRANSLATION<br>YES NO         |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)   |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
|  |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
| EXAMINER <i>Glen Shultz</i> DATE CONSIDERED <i>4/21/04</i>   |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |
| *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |      |  |   |                                     |   |                          |   |      |          |                 |          |                               |